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☐   1.   Document ID: US 6772408 B1

L3: Entry 1 of 4   File: USPT   Aug 3, 2004

US-PAT-NO: 6772408
DOCUMENT-IDENTIFIER: US 6772408 B1

TITLE: Event model using fixed-format text strings to express event actions

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Velonis; John	Dobbs Ferry	NY		
Deb Nath; Rituraj	Stamford	CT		

US-CL-CURRENT: 717/100; 345/763, 709/223, 709/224, 717/101, 717/102, 717/103, 717/106, 717/108, 717/109

ABSTRACT:

The present invention relates to computer software for initiating actions in response to user input, e.g., on an Internet web page. More particularly, the invention provides an improved event model comprising software components (designated "Fidgets" herein) which use fixed-format text strings to express event actions in a content delivery subsystem. In particular, the present invention provides a method for setting the event target property for a user event without the need to recompile software.

16 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   2.   Document ID: US 6601233 B1

L3: Entry 2 of 4   File: USPT   Jul 29, 2003

US-PAT-NO: 6601233
DOCUMENT-IDENTIFIER: US 6601233 B1

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Underwood; Roy Aaron	Long Grove	IL		

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of
logical business components in a business are first defined with each business
component having a plurality of capabilities. Next, functional interrelationships
are identified between the logical business components. Code modules are then
generated to carry out the capabilities of the logical business components and the
functional interrelationships between the logical business components, wherein the
code modules represent a transformation of the logical business components to their
physical implementation, while ensuring the capabilities that are carried out by
each code module are essentially unique to the logical business component
associated with the code module. Next, the functional aspects of the code modules
and the functional relationships of the code modules are tested. The code modules
are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 111

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D

☐ 3.   Document ID: US 6427228 B1

L3: Entry 3 of 4   File: USPT   Jul 30, 2002

US-PAT-NO: 6427228
DOCUMENT-IDENTIFIER: US 6427228 B1

TITLE: Combining a meta data file and java source code to dynamically create java
classes and javabeans

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wigger; William Daniel	Durham	NC		

US-CL-CURRENT: 717/111; 707/203, 717/100

ABSTRACT:

A technique for combining a meta data file and Java source code to dynamically
create Java classes and JavaBeans. This technique enables creating objects and
JavaBeans in a new, more flexible manner. An approach similar to, but different
from, existing macro definition and expansion is used. According to the present

invention, placeholders for parameter values are specified in the main source code
file, and the values to be substituted for these placeholders are contained in an
auxilliary file, referred to as a "meta file" or "meta data file". By isolating the
parameter values outside the source code file in this manner, the values are much
easier to change. The change does not affect the source code file itself. Instead,
the change is reflected in a new file created during the expansion process. This
approach enables an end-user to easily specify objects to be created, and/or the
instance data to be used for creating a particular object (i.e. the values to be
used for the parameters), without having to know Java code syntax and without
having to obtain write permissions to the Java source code. The approach of the
present invention also allows a particular macro to be used in different ways
throughout a source code file. A particular macro name can be referenced multiple
times in the source code file, with the ability to specify substitution of a
selectable subset of the parameter values where that subset may change from one
reference to another. In addition, a macro name can be specified multiple times in
the meta file of the present invention, with parameter values that may change from
one specification to another. Optionally, a conditional expansion feature may be
used. The technique of the present invention may be used advantageously with
object-oriented languages other than the Java programming language.

32 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

□ 4. Document ID: US 6330711 B1

L3: Entry 4 of 4   File: USPT   Dec 11, 2001

US-PAT-NO: 6330711
DOCUMENT-IDENTIFIER: US 6330711 B1

TITLE: Method and apparatus for dynamic application and maintenance of programs

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE   COUNTRY
Knutson; James   Austin   TX

US-CL-CURRENT: 717/100

ABSTRACT:

A method and apparatus providing a data processing system for managing rules in a
program in a Java operating system. The program is morphed such that the program
becomes a dippable program. A rule change is identified for the program. A dip is
created for the program, wherein the dip incorporates the rule change. The dip is
added to the dippable program, wherein the rule change is incorporated into the
dippable program. In the instance in which the program is not in a form suitable
for morphing, an interface may be added to encapsulate the program and allow the
program to be compatible with Java objects.

16 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Alignments | Claims | KWIC | Draw De |

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L2	L1 AND 717/$$$.ccls.	33	L2
L1	JAVABEAN	125	L1

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☑ 1.   Document ID: US 6766323 B2

L4: Entry 1 of 5   File: USPT   Jul 20, 2004

US-PAT-NO: 6766323
DOCUMENT-IDENTIFIER: US 6766323 B2

TITLE: System, method and computer program for application support in a data processing system

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beaven; John Anthony	Eastleigh			GB
Colby; Logan	Rochester	MN		
Mulholland; Alexandra	Winchester			GB
Robinson; Ian	Southampton			GB

US-CL-CURRENT: 707/10; 707/103R

ABSTRACT:

A data processing system comprising an object framework, and a plurality of components for supporting an application program utilizing the plurality of components. In the object framework, each of the plurality of components registers with the object framework. Then, in response to the registering, each of the plurality of components is associated with one of a plurality of context groups. Furthermore, each of the plurality of components creates an instance of itself. A first instance is associated with a first context group of a first respective component and a second instance is associated with a second context group of a second respective component. The first instance and the second instance operate independently of each other.

21 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

☑ 2.   Document ID: US 6754659 B2

L4: Entry 2 of 5   File: USPT   Jun 22, 2004

US-PAT-NO: 6754659
DOCUMENT-IDENTIFIER: US 6754659 B2

TITLE: Method for running existing java beans in an enterprise java bean
environment

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sarkar; Soumitra	Cary	NC		
Labrecque; Daniel J.	Chapel Hill	NC'		
Pogue; Steven W.	Cary	NC		

US-CL-CURRENT: 707/10; 707/104.1

ABSTRACT:

A method and system for running application code originally developed as simple
Java Beans, in an Enterprise Java Bean (EJB) environment, without modifying the
original application code is described. This is accomplished by running one or more
original Java beans in an EJB environment based on control from an external
program, using at least the steps of defining a single generic EJB and installing
the single generic EJB in an EJB container; generating EJB support code for each of
the one or more original Java beans, and executing the EJB support code to drive
the generic EJB to perform the functions of the one or more original Java beans in
an EJB environment.

9 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De |

☐   3.   Document ID: US 6597366 B1

L4: Entry 3 of 5   File: USPT   Jul 22, 2003

US-PAT-NO: 6597366
DOCUMENT-IDENTIFIER: US 6597366 B1

TITLE: Transparent general purpose object isolation for multi-tier distributed
object environments

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bennett; Brian T.	Mahopac	NY		
Leff; Avraham	New Hempstead	NY		
Mikalsen; Thomas A.	Cold Spring	NY		
Rayfield; James T.	Ridgefield	CT		

Rouvellou; Isabelle M.   New York   NY

US-CL-CURRENT: 345/619

ABSTRACT:

A method for manipulating objects in isolation, in accordance with the invention,
includes providing a shared object, B, from an object provider for use on a
distributed object system. A new class of objects are provided which include a
facade object, Bf, for B and a versionable representation object, Bv, for B wherein
Bf supports a same interface as B. B is permitted to be manipulated in a given
context isolated from other contexts for the object B wherein the object provider
and an object user are unaware of the production and manipulation of the new class
of objects. Method invocations on Bf in the given context are delegated to Bv to
associate an instance of Bv with the given context such that one or more versions
of object B are persistently maintained in the distributed object system.

35 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachment | Claims | KWIC | Draw D |

☑ 4.   Document ID: US 6298478 B1

L4: Entry 4 of 5   File: USPT   Oct 2, 2001

US-PAT-NO: 6298478
DOCUMENT-IDENTIFIER: US 6298478 B1

TITLE: Technique for managing enterprise JavaBeans (.TM.) which are the target of
multiple concurrent and/or nested transactions

DATE-ISSUED: October 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nally; Martin P.	Raleigh	NC		
Rich; Lawrence Scott	Apex	NC		
Salo; Timo J.	Apex	NC		

US-CL-CURRENT: 717/170

ABSTRACT:

A technique for providing a transaction management subsystem for an enterprise
computing environment in which multiple concurrent and/or nested transactions may
access the same Enterprise JavaBeans (EJBs) simultaneously. The transaction
management subsystem provides a view for each transaction which includes an
independent version of an EJB's business logic and its instance data. When an
application or application user has made modifications to an EJB version and
requests to commit the modifications, a determination is first made as to whether
committing the modifications will result in an unacceptable data conflict with

other versions of the same EJB. If no unacceptable data conflict will occur, and after resolution of those conflicts that can be resolved, the modifications are committed. The management subsystem also supports nested transactions, where each subtransaction may have an independent view of an EJB. Subtransactions may commit or roll back independently. Changes made by a transaction are represented using a tree structure that is internally managed by the application.

9 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☑ 5. Document ID: US 6269373 B1

L4: Entry 5 of 5   File: USPT   Jul 31, 2001

US-PAT-NO: 6269373
DOCUMENT-IDENTIFIER: US 6269373 B1

TITLE: Method and system for persisting beans as container-managed fields

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Apte; Ajay Arvind	Austin	TX		
Acker; Liane Elizabeth	Round Rock	TX		

US-CL-CURRENT: 707/10; 719/311, 719/316, 719/326

ABSTRACT:

A method for persisting a container-managed server object or bean in a distributed data processing system is provided. A method in a Tie object is invoked by the container of the bean to assist in the persistence of the bean. The bean may have container-managed fields of both primitive and complex data-types, and the complex data-types may include references to other objects or beans. The Tie object obtains the object reference to the other object. The Tie object unwraps an adapter from the object reference to obtain a proxy of the referred object and stringifies the proxy. The string is then stored by the container in a back-end data store as a known primitive data-type. The referred object may be resurrected by unstringifying the string and reversing the process.

17 Claims, 19 Drawing figures
Exemplary Claim Number: 9
Number of Drawing Sheets: 8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

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